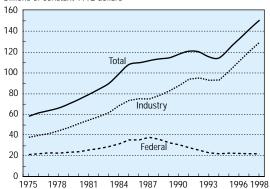
R&D in U.S. Industry

Figure 12. Industrial R&D performance, by source of funds and character of work

Billions of constant 1992 dollars



NOTES: Data for 1998 are preliminary. Details may not add to totals because of rounding.

SOURCE: National Science Foundation, Division of Science Resources Studies, Research and Development in Industry 1997, NSF 99-312 (Arlington, VA, 1999); Academic Research and Development Expenditures, Fiscal Year 1997, NSF 99-336 (Arlington, VA, 1999); Federal Funds for Research and Development: Fiscal Years 1997, 1998, and 1999, NSF 99-333 (Arlington, VA, 1999).

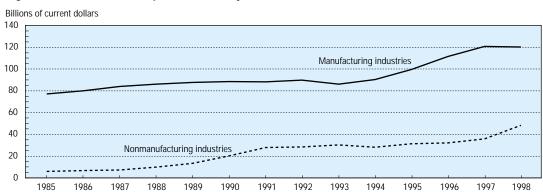
Source of funds (Millions of current dollars)

Source	1970	1980	1990	1995	1995 1996		1998 (prelim.)	
Total Industry Federal	17,594 10,288 7,306	43,228 30,476 12,752			144,667 121,015 23,653		169,180 145,016 24,164	

Character of work (Millions of current dollars)

	Year	Total R&D	Basic research	Applied research	Development	
	1985	84,239	2,862	18,255	63,122	
	1986	87,823	4,047	19,759	64,017	
	1987	92,155	4,324	19,813	68,018	
	1988	97,015	4,500	20,748	71,767	
	1989	102,055	5,216	22,691	74,148	
	1990	109,727	5,128	24,785	79,814	
	1991	116,952	7,837	27,446	81,669	
	1992	119,110	7,002	26,168	85,940	
	1993	117,400	6,919	24,686	85,796	
	1994	119,595	7,017	23,490	89,088	
	1995	132,103	6,099	27,454	98,552	
1	1996	144,667	8,207	29,241	107,218	
	1997	157,539	10,419	32,642	114,478	
	1998	169,180	13,595	30,572	125,013	

Figure 13. Industrial R&D performance, by sector



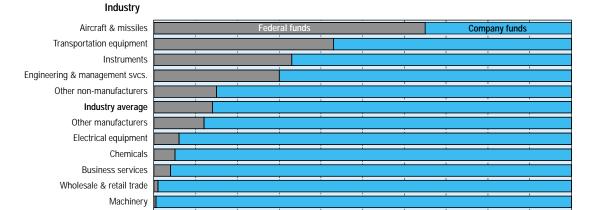
(Millions of current dollars)

Sector	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
Manufacturing industries	77,525	80,377	84,311	86,503	88,024	88,934	88,506	90,177	86,569	90,749	100,067	111,864	121,025	120,401
Nonmanufacturing industries	6,714	7,446	7,844	10,513	14,031	20,793	28,446	28,933	30,831	28,846	32,036	32,803	36,514	48,780

SOURCES: National Science Foundation, Division of Science Resources Studies, *Research and Development in Industry: 1997*, NSF 99-358 (Arlington, VA, 1999); and *Research and Development in Industry: 1998* [Early Release Tables].

Figure 14. Share of industrial R&D funding, by source and industry: 1998

Drugs & medicines



NOTE: Company-funded R&D includes funds for industrial R&D performed within company facilities from all sources except the Federal government. SOURCE: National Science Foundation, Division of Science Resources Studies, Research and Development in Industry: 1998 [Early Release Tables].

Percent of total

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